

## SEQUENCE LISTING



RECEIVED

FEB 05 2002

TECH CENTER 1600/2900

<110> Mirkin, Chad A.  
 Letsinger, Robert L.  
 Mucic, Robert C.  
 Storhoff, James J.  
 Elghanian, Robert  
 Taton, Thomas A.

<120> NANOPARTICLES HAVING OLIGONUCLEOTIDES ATTACHED THERETO  
 AND USES THEREFOR

<130> 00-713-i23

<140> 09/976,900

<141> 2001-10-12

<150> 09/603,830

<151> 2000-06-26

<150> 09/344,667

<151> 1999-06-25

<150> 09/240,755

<151> 1999-01-29

<150> PCT/US97/12783

<151> 1997-07-21

<150> 60/031,809

<151> 1996-07-29

<150> 60/200,161

<151> 2000-04-26

<160> 64

<170> Microsoft Word 2000

<210> 1

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random  
 synthetic sequence

<400> 1

aaacgactct agcgcgata

20

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random

## synthetic sequence

<400> 2  
atggcaacta tacgcgctag 20

<210> 3  
<211> 16  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 3  
ccttgagatt tccctc 16

<210> 4  
<211> 16  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 4  
gagggaaatc tcaagg 16

<210> 5  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 5  
aacttgcgct aatggcga 18

<210> 6  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 6  
aagttgcgct ttacggctaa tggcga 26

<210> 7

00-713-i23 seq list

<211> 15  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:random  
 synthetic sequence

<400> 7  
 tctccttccc ttttc 15

<210> 8  
 <211> 15  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:random  
 synthetic sequence

<400> 8  
 gaaaagggaa ggaga 15

<210> 9  
 <211> 15  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:random  
 synthetic sequence

<400> 9  
 cttttccctt cctct 15

<210> 10  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:random  
 synthetic sequence

<400> 10  
 aaacgactct agcgcgtata gttgccat 28

<210> 11  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:random  
 synthetic sequence

00-713-i23 seq list

<400> 11 atggcaacta tacgcgctag agtcgttt	28
<210> 12 <211> 15 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence:random synthetic sequence	
<400> 12 cctatcgacc atgct	15
<210> 13 <211> 30 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence:random synthetic sequence	
<400> 13 agcatggtcg ataggaaacg actctagcgc	30
<210> 14 <211> 15 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence:random synthetic sequence	
<400> 14 gcgctagagt cgttt	15
<210> 15 <211> 30 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence:random synthetic sequence	
<400> 15 agcatggtcg ataggatggc aactatacgc	30
<210> 16 <211> 24	

00-713-i23 seq list

<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 16  
gtcgatagga aacgactcta gcgc

24

<210> 17  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 17  
agcatgggtg ataggaaacg actctagcgc

30

<210> 18  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 18  
agcatgtttg ataggaaacg actctagcgc

30

<210> 19  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 19  
tctcaactcg ta

12

<210> 20  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

00-713-i23 seq list

<400> 20 cgcatcagg at	12
<210> 21 <211> 24 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence:random synthetic sequence	
<400> 21 tacgagttga gagagtgtcc acat	24
<210> 22 <211> 24 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence:random synthetic sequence	
<400> 22 tacgagttga gaatcctgaa tgcg	24
<210> 23 <211> 24 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence:random synthetic sequence	
<400> 23 tacgagttga gaatcctgaa tgct	24
<210> 24 <211> 24 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence:random synthetic sequence	
<400> 24 tacgagttga gactcctgaa tgcg	24
<210> 25 <211> 23 <212> DNA	

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 25

tacgagttga gaatcctgaa tgc

23

<210> 26

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 26

tacgagttga gacatcctga atgcg

25

<210> 27

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 27

tacgagttga gaatcctgaa tgcg

24

<210> 28

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 28

taggacttac gc

12

<210> 29

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 29

00-713-i23 seq list

tacgagttga gaccgttaag acgaggcaat catgcaatcc tgaatgcg 48

<210> 30  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:random  
 synthetic sequence

<400> 30  
 tgcattgattg cctcgtctta acgg 24

<210> 31  
 <211> 72  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:random  
 synthetic sequence

<400> 31  
 tacgagttga gaccgttaag acgaggcaat catgcatata ttggacgctt tacggacaac 60  
 atcctgaatg cg 72

<210> 32  
 <211> 48  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:random  
 synthetic sequence

<400> 32  
 gttgtccgta aagcgtccaa tatatgcatg attgcctcgt cttaacgg 48

<210> 33  
 <211> 12  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:random  
 synthetic sequence

<400> 33  
 tctcaactcg ta 12

<210> 34  
 <211> 24  
 <212> DNA



<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 34

tacgagttga gaatcctgaa tgcg

24

<210> 35

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 35

cgcattcagg at

12

<210> 36

<211> 141

<212> DNA

<213> anthrax

<400> 36

ggcggatgag tcagtagtta aggaggctca tagagaagta attaatcgt caacagaggg 60  
attattgtta aatattgata aggatataag aaaaatatta tccagggtta tattgtagaa 120  
attgaagata ctgaagggt t 141

<210> 37

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 37

taacaataat ccctc

15

<210> 38

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 38

atccttatca atatt

15

00-713-i23 seq list

<210> 39  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:random  
       synthetic sequence  
  
 <400> 39  
 tgagcctcct taactactga ctcacccgcc 30  
  
 <210> 40  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:random  
       synthetic sequence  
  
 <400> 40  
 tgttgacgaa ttaattactt ctcta 25  
  
 <210> 41  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:random  
       synthetic sequence  
  
 <400> 41  
 tataaccctg gataatattt ttcttat 27  
  
 <210> 42  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:random  
       synthetic sequence  
  
 <400> 42  
 aagcccttca gtatcttcaa tttctacaa 29  
  
 <210> 43  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>

<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 43  
tctcaactcg taaaaaaaaa aa 22

<210> 44  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 44  
tacgagttga gaatcctgaa tgcg 24

<210> 45  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 45  
aaaaaaaaaa cgcattcagg at 22

<210> 46  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 46  
tctcaactcg taaaaaaaaa aa 22

<210> 47  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 47  
aaaaaaaaaa cgcattcagg at 22

<210> 48  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 48  
tacgagttga gaatcctgaa tgcg 24

<210> 49  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 49  
ctacttagat ccgagtgtccc acat 24

<210> 50  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 50  
cgcattcagg at 12

<210> 51  
<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 51  
aaaaaaaaaa aaaaaaaaaa cgcattcagg at 32

<210> 52  
<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random

# 00-713-i23 seq list

## synthetic sequence

<400> 52  
cgcatcagg atwwwwwww wwwwwwww ww 32

<210> 53  
<211> 12  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 53  
atcctgaatg cg 12

<210> 54  
<211> 12  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 54  
atcctgaatg cg 12

<210> 55  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 55  
aaaaaaaaa aaaaaaaaaa 20

<210> 56  
<211> 27  
<212> DNA  
<213> Anthrax

<400> 56  
ggattattgt taattattga taaggat 27

<210> 57  
<211> 12  
<212> DNA  
<213> Anthrax

# 00-713-i23 seq list

<400> 57  
taacaatnat cc 12

<210> 58  
<211> 15  
<212> DNA  
<213> Anthrax

<400> 58  
atccttatca atatt 15

<210> 59  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 59  
tctcaactcg ta 12

<210> 60  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 60  
tacgagttga gaatcctgaa tgcg 24

<210> 61  
<211> 48  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 61  
gcgtaagtcc taacgtacta acggagcaga attgccagag ttgagcat 48

<210> 62  
<211> 72  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random

synthetic sequence

<400> 62  
gcgtaagtcc tacaacaggc atttcgcagg ttatatacgt actaacggag cagaattgcc 60  
agagttgagc at 72

<210> 63  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 63  
tgcattgattg cctcgtctta acgg 24

<210> 64  
<211> 48  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:random  
synthetic sequence

<400> 64  
gttggtccgta aagcgtccaa tatatgcatg attgcctcgt cttaacgg 48